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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/697,395	10/27/2000	Topi Koskinen	460-009824-US(PAR)	2829

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EXAMINER

SEFCHECK, GREGORY B

ART UNIT	PAPER NUMBER
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2662

DATE MAILED: 07/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/697,395

Applicant(s)

KOSKINEN ET AL.

Examiner

Gregory B Sefcheck

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 May 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

- The Amendment filed 5/3/2004 is acknowledged.
- The replacement drawings are acceptable.
- The previous objection to claims 1-10 is withdrawn.
- The previous rejection to claims 8 and 21 under 35 USC 112, 1st paragraph is withdrawn.
- Claims 1-23 remain pending.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4, 6-14, 16-19 and 21-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Frid et al. (US006560239B1), hereafter Frid.

- In regards to Claim 1-2, 8-11, 16, 18 and 21-22,

Frid discloses a method, system and terminal for retaining a packet (first) connection in a wireless system during a circuit-switched (second) connection to

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the wireless terminal (Title; Abstract; claim 9 – first connection is a packet connection and second connection is a circuit-switched connection; claim 10/16/22 – terminal is a wireless terminal and network is a mobile communication network).

Referring to Fig. 3, Frid shows establishing a first connection between a terminal and a packet-switched network (302-310; claim 1/11/18 – means for setting up first connection between network and terminal).

Frid further shows a setting up of a second connection between the terminal and the network (312-316; claim 1/11/18 – means for setting up second connection between network and terminal).

Frid shows that the terminal sends a message (318) for interrupting the first connection, but maintaining the first connection protocol, while accepting the second connection (320-336; claim 1/11/18 – means for interrupting the first connection for the time of the second connection; claim 1/11/18 – means for setting up a message for maintaining the first connection in connection with setting up of the second connection; claim 1 – setting up the message maintaining the first connection is started in the terminal; claim 2 – message for maintaining the first connection is generated in the terminal and transmitted from the terminal to the network; claim 8/21 – maintenance message is supplemented with a “no operation” command)

- In regards to Claim 3 and 13,

Frid discloses a method and terminal for retaining a packet (first) connection in a wireless system during a circuit (second) connection that covers all limitations of the parent claims.

Frid shows that the network maintains the parameters of the first connection (claim 3/13 – message for maintaining the first connection is generated in the network) following receiving an acceptance message from the terminal for the second connection (Fig. 3, 318-322; Col. 7, lines 32-65; claim 3/13 – means for setting up message for maintaining the first connection is started by transmitting information about interrupting the first connection from the terminal to the network).

- In regards to Claim 4 and 14,

Frid discloses a method and terminal for retaining a packet (first) connection in a wireless system during a circuit (second) connection that covers all limitations of the parent claims.

Referring to Fig. 3, Frid shows that the method and terminal receives a message requesting to set up a second connection (316; claim 4/14 – means to receive message to setup second connection at the terminal).

Frid further shows that the acceptance of the second connection (324) is transmitted from the terminal to the network after the maintenance information for the first connection is transmitted (318-320; claim 4/14 – means for transmitting

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reply message to the request for the second connection from terminal to network after the message for maintaining the first connection is transmitted).

- In regards to Claim 6-7 and 19,

Frid discloses a method and system for retaining a packet (first) connection in a wireless system during a circuit (second) connection that covers all limitations of the parent claims.

Frid shows that the first packet connection may be communicate information between the network and a termination endpoint, such as the Internet or a server on a LAN (Col. 1, lines 27-35; Col. 5, lines 20-30; claim 6/7/19 – network communicates with a LAN/Internet; claim 6/7/19 – first connection is between terminal and server in LAN/Internet)

When the second connection is accepted and the maintenance of the first connection is set up, the maintenance message is received at the termination endpoint (Fig. 3, 318-322; Col. 7, lines 57-65; claim 6/7/19 – network transmits maintenance message to server/Internet).

- In regards to Claim 12,

Frid discloses a terminal for retaining a packet (first) connection in a wireless system during a circuit (second) connection that covers all limitations of the parent claims.

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Frid shows that the terminal is equipped to generate and transmit a message to the network indicating that the first connection is to be maintained during a second connection (Fig. 3, 318-322; Col. 7, lines 18-55; claim 12 – means for generating and means for transmitting the message for maintaining the first connection).

- In regards to Claim 17,

Frid discloses a terminal for retaining a packet (first) connection in a wireless system during a circuit (second) connection that covers all limitations of the parent claims.

Frid discloses a terminal that comprises circuitry for processing (processor; claim 17 – terminal comprises a data processor) messages for the retention of a first connection for the duration of a second connection (Fig. 3, 318-322; Col. 11, lines 6-31; claim 17 – means for setting up message for maintaining the first connection are arranged in the data processor).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5, 15, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frid in view of Chen et al. (US006198945B1), hereafter Chen.

- In regards to Claim 5, 15 and 20,

Frid discloses a method, system and terminal for retaining a packet (first) connection in a wireless system during a circuit (second) connection that covers all limitations of the parent claims.

Frid does not explicitly show selecting and adding a telephone number to the message for setting up the second connection. Frid also does not show transmitting the maintenance message for the first connection after selecting the telephone number but before setting up the second connection.

Chen discloses a method and system that enables a mobile terminal to place a first connection on hold while initiating a second connection by selecting a telephone number and adding that number to a message for setting up a second connection (Fig. 3, Col. 6, lines 15-63; claim 5/15/20 – means to select and add a telephone number to message for setting up the second connection;

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claim 5/15/20 – message maintaining the first connection is transmitted after the selection of a telephone number, before setting up the second connection)

It would have been obvious to one of ordinary skill in the art at the time of the invention to select a telephone number for setting up the second connection before maintaining the first connection and setting up the second connection, as shown by Chen. This modification would allow a first connection to be maintained during either an incoming or an outgoing second connection.

5. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Frid.

- In regards to Claim 23,

Frid discloses a system for retaining a packet (first) connection in a wireless system during a circuit-switched (second) connection to the wireless terminal that covers all limitations of the parent claim (Title; Abstract).

Frid does not explicitly show the first packet connection to be a GPRS packet connection

Frid discloses a system with a first packet connection for data communications according to the PPP protocol. Clearly, the principles of the connection retention system could be applied to any mutually-understood computer communications protocol (Col. 2, lines 46-47; claim 23 – first connection is a GPRS packet connection and second connection is a circuit-switched connection)

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It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Frid's system of retaining a variety of first packet connections, such as implemented by general packet radio service (GPRS), thus providing the flexibility of connection retention during a second connection for various types of packet connection.

Response to Arguments

6. Applicant's arguments filed 5/3/2004 have been fully considered but they are not persuasive.

- In the Remarks, pg. 9 of the Amendment filed 5/3/2004, the Applicant contends that Frid does not disclose "automatic generation of a maintenance message" for interrupting a packet connection for the duration of a circuit-switched call.
- The Examiner respectfully disagrees. On lines 20-30 of column 6, Frid discloses permanent (automatic) retention of a packet communication while responding to a circuit-switched call. The retention feature remains activated for all subsequent packet-switched data connections after initial activation.

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Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

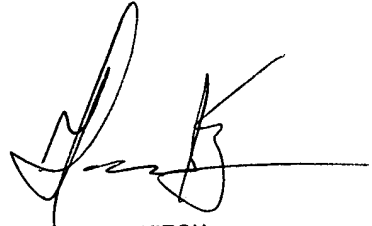
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory B Sefcheck whose telephone number is 703-305-0633. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 703-305-4744. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GBS
7-6-2004

A handwritten signature in black ink, appearing to read 'H. Kizou', with a long horizontal line extending to the right.

HASSAN KIZOU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600